



templst.txt

SEQUENCE LISTING

RECEIVED
FEB 13 2004
TECH CENTER 1500/2900

<110> Iozzo, Renato V.

<120> Endorepellin: methods and compositions
for inhibiting angiogenesis

<130> 8321-95

<140> 10/006,011

<141> 2001-12-04

<160> 10

<170> FastSEQ for windows version 4.0

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<213> human

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<223> frag. 3927-4181

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Asp Ala Pro Gly Gln Tyr
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Gly	Arg	Leu	Leu	Ala	Val	Thr	His	Gly	Leu	Arg	Ala	Tyr	Asp	Gly	Leu
			20					25					30		
Ser	Leu	Pro	Glu	Asp	Ile	Glu	Thr	Val	Thr	Ala	Ser	Gln	Met	Arg	Trp
		35				40						45			
Thr	His	Ser	Tyr	Leu	Ser	Asp	Glu	Tyr	Met	Leu	Ala	Asp	Ser	Ile	
	50					55				60					
Ser	Gly	Asp	Asp	Leu	Gly	Ser	Gly	Asp	Leu	Gly	Ser	Gly	Asp	Phe	Gln
65				70					75					80	
Met	Val	Tyr	Phe	Arg	Ala	Leu	Val	Asn	Phe	Thr	Arg	Ser	Ile	Glu	Tyr
				85				90						95	
Ser	Pro	Gln	Leu	Glu	Asp	Ala	Gly	Ser	Arg	Glu	Phe	Arg	Glu	Val	Ser
			100					105					110		
Glu	Ala	Val	Val	Asp	Thr	Leu	Glu	Ser	Glu	Tyr	Leu	Lys	Ile	Pro	Gly
			115				120					125			
Asp	Gln	Val	Val	Ser	Val	Val	Phe	Ile	Lys	Glu	Leu	Asp	Gly	Trp	Val
	130					135					140				
Phe	Val	Glu	Leu	Asp	Val	Gly	Ser	Glu	Gly	Asn	Ala	Asp	Gly	Ala	Gln
145				150						155					160
Ile	Gln	Glu	Met	Leu	Leu	Arg	Val	Ile	Ser	Ser	Gly	Ser	Val	Ala	Ser
			165					170						175	
Tyr	Val	Thr	Ser	Pro	Gln	Gly	Phe	Gln	Phe	Arg	Arg	Leu	Gly	Thr	Val
			180				185						190		
Pro	Gln	Phe	Pro	Arg	Ala	Cys	Thr	Glu	Ala	Glu	Phe	Ala	Cys	His	Ser
		195				200						205			
Tyr	Asn	Glu	Cys	Val	Ala	Leu	Glu	Tyr	Arg	Cys	Asp	Arg	Arg	Pro	Asp

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Cys	Arg	Asp	Met	Ser	Asp	Glu	Leu	Asn	Cys	Glu	Glu	Pro	Val	Leu	Gly	
225					230					235					240	
Ile	Ser	Pro	Thr	Phe	Ser	Leu	Leu	Val	Glu	Thr	Thr	Ser	Leu	Pro	Pro	
				245					250					255		
Arg	Pro	Glu	Thr	Thr	Ile	Met	Arg	Gln	Pro	Pro	Val	Thr	His	Ala	Pro	
			260					265					270			
Gln	Pro	Leu	Leu	Pro	Gly	Ser	Val	Arg	Pro	Leu	Pro	Cys	Gly	Pro	Gln	
		275					280					285				
Glu	Ala	Ala	Cys	Arg	Asn	Gly	His	Cys	Ile	Pro	Arg	Asp	Tyr	Leu	Cys	
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Asp	Gly	Gln	Glu	Asp	Cys	Glu	Asp	Gly	Ser	Asp	Glu	Leu	Asp	Cys	Gly	
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Pro	Pro	Pro	Pro	Cys	Glu	Pro	Asn	Glu	Phe	Pro	Cys	Gly	Asn	Gly	His	
				325					330					335		
Cys	Ala	Leu	Lys	Leu	Trp	Arg	Cys	Asp	Gly	Asp	Phe	Asp	Cys	Glu	Asp	
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Arg	Thr	Asp	Glu	Ala	Asn	Cys	Pro	Thr	Lys	Arg	Pro	Glu	Glu	Val	Cys	
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Gly	Pro	Thr	Gln	Phe	Arg	Cys	Val	Ser	Thr	Asn	Met	Cys	Ile	Pro	Ala	
	370					375					380					
Ser	Phe	His	Cys	Asp	Glu	Glu	Ser	Asp	Cys	Pro	Asp	Arg	Ser	Asp	Glu	
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Phe	Gly	Cys	Met	Pro	Pro	Gln	Val	Val	Thr	Pro	Pro	Arg	Glu	Ser	Ile	
				405					410					415		
Gln	Ala	Ser	Arg	Gly	Gln	Thr	Val	Thr	Phe	Thr	Cys	Val	Ala	Ile	Gly	
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Val	Pro	Thr	Pro	Ile	Ile	Asn	Trp	Arg	Leu	Asn	Trp	Gly	His	Ile	Pro	
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Ser	His	Pro	Arg	Val	Thr	Val	Thr	Ser	Glu	Gly	Gly	Arg	Gly	Thr	Leu	
	450				455						460					
Ile	Ile	Arg	Asp	Val	Lys	Glu	Ser	Asp	Gln	Gly	Ala	Tyr	Thr	Cys	Glu	
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Ala	Met	Asn	Ala	Arg	Gly	Met	Val	Phe	Gly	Ile	Pro	Asp	Gly	Val	Leu	
				485					490					495		
Glu	Leu	Val	Pro	Gln	Arg	Gly	Pro	Cys	Pro	Asp	Gly	His	Phe	Tyr	Leu	
			500					505					510			
Glu	His	Ser	Ala	Ala	Cys	Leu	Pro	Cys	Phe	Cys	Phe	Gly	Ile	Thr	Ser	
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Val	Cys	Gln	Ser	Thr	Arg	Arg	Phe	Arg	Asp	Gln	Ile	Arg	Leu	Arg	Phe	
	530					535					540					
Asp	Gln	Pro	Asp	Asp	Phe	Lys	Gly	Val	Asn	Val	Thr	Met	Pro	Ala	Gln	
545					550					555				560		
Pro	Gly	Thr	Pro	Pro	Leu	Ser	Ser	Thr	Gln	Leu	Gln	Ile	Asp	Pro	Ser	
				565					570					575		
Leu	His	Glu	Phe	Gln	Leu	Val	Asp	Leu	Ser	Arg	Arg	Phe	Leu	Val	His	
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Asp	Ser	Phe	Trp	Ala	Leu	Pro	Glu	Gln	Phe	Leu	Gly	Asn	Lys	Val	Asp	
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Ser	Tyr	Gly	Gly	Ser	Leu	Arg	Tyr	Asn	Val	Arg	Tyr	Glu	Leu	Ala	Arg	
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Gly	Met	Leu	Glu	Pro	Val	Gln	Arg	Pro	Asp	Val	Val	Leu	Val	Gly	Ala	
625					630					635				640		
Gly	Tyr	Arg	Leu	Leu	Ser	Arg	Gly	His	Thr	Pro	Thr	Gln	Pro	Gly	Ala	
				645					650					655		
Leu	Asn	Gln	Arg	Gln	Val	Gln	Phe	Ser	Glu	Glu	His	Trp	Val	His	Glu	
			660				665						670			
Ser	Gly	Arg	Pro	Val	Gln	Arg	Ala	Glu	Leu	Leu	Gln	Val	Leu	Gln	Ser	
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Leu	Glu	Ala	Val	Leu	Ile	Gln	Thr	Val	Tyr	Asn	Thr	Lys	Met	Ala	Ser	
	690					695					700					
Val	Gly	Leu	Ser	Asp	Ile	Ala	Met	Asp	Thr	Thr	Val	Thr	His	Ala	Thr	
705					710					715					720	

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Ser His Gly Arg Ala His Ser Val Glu Glu Cys Arg Cys Pro Ile Gly
 Tyr Ser Gly Leu Ser Cys Glu Ser Cys Asp Ala His Phe Thr Arg Val
 Pro Gly Gly Pro Tyr Leu Gly Thr Cys Ser Gly Cys Ser Cys Asn Gly
 His Ala Ser Ser Cys Asp Pro Val Tyr Gly His Cys Leu Asn Cys Gln
 His Asn Thr Glu Gly Pro Gln Cys Asn Lys Cys Lys Ala Gly Phe Phe
 Gly Asp Ala Met Lys Ala Thr Ala Thr Ser Cys Arg Pro Cys Pro Cys
 Pro Tyr Ile Asp Ala Ser Arg Arg Phe Ser Asp Thr Cys Phe Leu Asp
 Thr Asp Gly Gln Ala Thr Cys Asp Ala Cys Ala Pro Gly Tyr Thr Gly
 Arg Arg Cys Glu Ser Cys Ala Pro Gly Tyr Glu Gly Asn Pro Ile Gln
 Pro Gly Gly Lys Cys Arg Pro Val Asn Gln Glu Ile Val Arg Cys Asp
 Glu Arg Gly Ser Met Gly Thr Ser Gly Glu Ala Cys Arg Cys Lys Asn
 Asn Val Val Gly Arg Leu Cys Asn Glu Cys Ala Asp Gly Ser Phe His
 Leu Ser Thr Arg Asn Pro Asp Gly Cys Leu Lys Cys Phe Cys Met Gly
 Val Ser Arg His Cys Thr Ser Ser Ser Trp Ser Arg Ala Gln Leu His
 Gly Ala Ser Glu Glu Pro Gly His Phe Ser Leu Thr Asn Ala Ala Ser
 Thr His Thr Thr Asn Glu Gly Ile Phe Ser Pro Thr Pro Gly Glu Leu
 Gly Phe Ser Ser Phe His Arg Leu Leu Ser Gly Pro Tyr Phe Trp Ser
 Leu Pro Ser Arg Phe Leu Gly Asp Lys Val Thr Ser Tyr Gly Gly Glu
 Leu Arg Phe Thr Val Thr Gln Arg Ser Gln Pro Gly Ser Thr Pro Leu
 His Gly Gln Pro Leu Val Val Leu Gln Gly Asn Asn Ile Ile Leu Glu
 His His Val Ala Gln Glu Pro Ser Pro Gly Gln Pro Ser Thr Phe Ile
 Val Pro Phe Arg Glu Gln Ala Trp Gln Arg Pro Asp Gly Gln Pro Ala
 Thr Arg Glu His Leu Leu Met Ala Leu Ala Gly Ile Asp Thr Leu Leu
 Ile Arg Ala Ser Tyr Ala Gln Gln Pro Ala Glu Ser Arg Val Ser Gly
 Ile Ser Met Asp Val Ala Val Pro Glu Glu Thr Gly Gln Asp Pro Ala
 Leu Glu Val Glu Gln Cys Ser Cys Pro Pro Gly Tyr Arg Gly Pro Ser
 Cys Gln Asp Cys Asp Thr Gly Tyr Thr Arg Thr Pro Ser Gly Leu Tyr
 Leu Gly Thr Cys Glu Arg Cys Ser Cys His Gly His Ser Glu Ala Cys
 Glu Pro Glu Thr Gly Ala Cys Gln Gly Cys Gln His His Thr Glu Gly
 Pro Arg Cys Glu Gln Cys Gln Pro Gly Tyr Tyr Gly Asp Ala Gln Arg
 Gly Thr Pro Gln Asp Cys Gln Leu Cys Pro Cys Tyr Gly Asp Pro Ala
 Ala Gly Gln Ala Ala His Thr Cys Phe Leu Asp Thr Asp Gly His Pro

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Thr Cys Asp 1220 Ala Cys Ser Pro Gly 1225 His Ser Gly Arg His Cys Glu Arg 1230
 1235 1240 1245
 Cys Ala Pro Gly Tyr Tyr Gly Asn Pro Ser Gln Gly Gln Pro Cys Gln
 1250 1255 1260
 Arg Asp Ser Gln Val Pro Gly Pro Ile Gly Cys Asn Cys Asp Pro Gln
 1265 1270 1275 1280
 Gly Ser Val Ser Ser Gln Cys Asp Ala Ala Gly Gln Cys Gln Cys Lys
 1285 1290 1295
 Ala Gln Val Glu Gly Leu Thr Cys Ser His Cys Arg Pro His His Phe
 1300 1305 1310
 His Leu Ser Ala Ser Asn Pro Asp Gly Cys Leu Pro Cys Phe Cys Met
 1315 1320 1325
 Gly Ile Thr Gln Gln Cys Ala Ser Ser Ala Tyr Thr Arg His Leu Ile
 1330 1335 1340
 Ser Thr His Phe Ala Pro Gly Asp Phe Gln Gly Phe Ala Leu Val Asn
 1345 1350 1355 1360
 Pro Gln Arg Asn Ser Arg Leu Thr Gly Glu Phe Thr Val Glu Pro Val
 1365 1370 1375
 Pro Glu Gly Ala Gln Leu Ser Phe Gly Asn Phe Ala Gln Leu Gly His
 1380 1385 1390
 Glu Ser Phe Tyr Trp Gln Leu Pro Glu Thr Tyr Gln Gly Asp Lys Val
 1395 1400 1405
 Ala Ala Tyr Gly Gly Lys Leu Arg Tyr Thr Leu Ser Tyr Thr Ala Gly
 1410 1415 1420
 Pro Gln Gly Ser Pro Leu Ser Asp Pro Asp Val Gln Ile Thr Gly Asn
 1425 1430 1435 1440
 Asn Ile Met Leu Val Ala Ser Gln Pro Ala Leu Gln Gly Pro Glu Arg
 1445 1450 1455
 Arg Ser Tyr Glu Ile Met Phe Arg Glu Glu Phe Trp Arg Arg Pro Asp
 1460 1465 1470
 Gly Gln Pro Ala Thr Arg Glu His Leu Leu Met Ala Leu Ala Asp Leu
 1475 1480 1485
 Asp Glu Leu Leu Ile Arg Ala Thr Phe Ser Ser Val Pro Leu Val Ala
 1490 1495 1500
 Ser Ile Ser Ala Val Ser Leu Glu Val Ala Gln Pro Gly Pro Ser Asn
 1505 1510 1515 1520
 Arg Pro Arg Ala Leu Glu Val Glu Glu Cys Arg Cys Pro Pro Gly Tyr
 1525 1530 1535
 Ile Gly Leu Ser Cys Gln Asp Cys Ala Pro Gly Tyr Thr Arg Thr Gly
 1540 1545 1550
 Ser Gly Leu Tyr Leu Gly His Cys Glu Leu Cys Glu Cys Asn Gly His
 1555 1560 1565
 Ser Asp Leu Cys His Pro Glu Thr Gly Ala Cys Ser Gln Cys Gln His
 1570 1575 1580
 Asn Ala Ala Gly Glu Phe Cys Glu Leu Cys Ala Pro Gly Tyr Tyr Gly
 1585 1590 1595 1600
 Asp Ala Thr Ala Gly Thr Pro Glu Asp Cys Gln Pro Cys Ala Cys Pro
 1605 1610 1615
 Leu Thr Asn Pro Glu Asn Met Phe Ser Arg Thr Cys Glu Ser Leu Gly
 1620 1625 1630
 Ala Gly Gly Tyr Arg Cys Thr Ala Cys Glu Pro Gly Tyr Thr Gly Gln
 1635 1640 1645
 Tyr Cys Glu Gln Cys Gly Pro Gly Tyr Val Gly Asn Pro Ser Val Gln
 1650 1655 1660
 Gly Gly Gln Cys Leu Pro Glu Thr Asn Gln Ala Pro Leu Val Val Glu
 1665 1670 1675 1680
 Val His Pro Ala Arg Ser Ile Val Pro Gln Gly Gly Ser His Ser Leu
 1685 1690 1695
 Arg Cys Gln Val Ser Gly Ser Pro Pro His Tyr Phe Tyr Trp Ser Arg
 1700 1705 1710
 Glu Asp Gly Arg Pro Val Pro Ser Gly Thr Gln Gln Arg His Gln Gly
 1715 1720 1725

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Ser Glu Leu His Phe Pro Ser Val Gln Pro Ser Asp Ala Gly Val Tyr
 1730 1735 1740
 Ile Cys Thr Cys Arg Asn Leu His Gln Ser Asn Thr Ser Arg Ala Glu
 1745 1750 1755 1760
 Leu Leu Val Thr Glu Ala Pro Ser Lys Pro Ile Thr Val Thr Val Glu
 1765 1770 1775
 Glu Gln Arg Ser Gln Ser Val Arg Pro Gly Ala Asp Val Thr Phe Ile
 1780 1785 1790
 Cys Thr Ala Lys Ser Lys Ser Pro Ala Tyr Thr Leu Val Trp Thr Arg
 1795 1800 1805
 Leu His Asn Gly Lys Leu Pro Thr Arg Ala Met Asp Phe Asn Gly Ile
 1810 1815 1820
 Leu Thr Ile Arg Asn Val Gln Leu Ser Asp Ala Gly Thr Tyr Val Cys
 1825 1830 1835 1840
 Thr Gly Ser Asn Met Phe Ala Met Asp Gln Gly Thr Ala Thr Leu His
 1845 1850 1855
 Val Gln Ala Ser Gly Thr Leu Ser Ala Pro Val Val Ser Ile His Pro
 1860 1865 1870
 Pro Gln Leu Thr Val Gln Pro Gly Gln Leu Ala Glu Phe Arg Cys Ser
 1875 1880 1885
 Ala Thr Gly Ser Pro Thr Pro Thr Leu Glu Trp Thr Gly Gly Pro Gly
 1890 1895 1900
 Gly Gln Leu Pro Ala Lys Ala Gln Ile His Gly Gly Ile Leu Arg Leu
 1905 1910 1915 1920
 Pro Ala Val Glu Pro Thr Asp Gln Ala Gln Tyr Leu Cys Arg Ala His
 1925 1930 1935
 Ser Ser Ala Gly Gln Gln Val Ala Arg Ala Val Leu His Val His Gly
 1940 1945 1950
 Gly Gly Gly Pro Arg Val Gln Val Ser Pro Glu Arg Thr Gln Val His
 1955 1960 1965
 Ala Gly Arg Thr Val Arg Leu Tyr Cys Arg Ala Ala Gly Val Pro Ser
 1970 1975 1980
 Ala Thr Ile Thr Trp Arg Lys Glu Gly Gly Ser Leu Pro Pro Gln Ala
 1985 1990 1995 2000
 Arg Ser Glu Arg Thr Asp Ile Ala Thr Leu Leu Ile Pro Ala Ile Thr
 2005 2010 2015
 Thr Ala Asp Ala Gly Phe Tyr Leu Cys Val Ala Thr Ser Pro Ala Gly
 2020 2025 2030
 Thr Ala Gln Ala Arg Met Gln Val Val Val Leu Ser Ala Ser Asp Ala
 2035 2040 2045
 Ser Pro Pro Gly Val Lys Ile Glu Ser Ser Ser Pro Ser Val Thr Glu
 2050 2055 2060
 Gly Gln Thr Leu Asp Leu Asn Cys Val Val Ala Gly Ser Ala His Ala
 2065 2070 2075 2080
 Gln Val Thr Trp Tyr Arg Arg Gly Gly Ser Leu Pro Pro His Thr Gln
 2085 2090 2095
 Val His Gly Ser Arg Leu Arg Leu Pro Gln Val Ser Pro Ala Asp Ser
 2100 2105 2110
 Gly Glu Tyr Val Cys Arg Val Glu Asn Gly Ser Gly Pro Lys Glu Ala
 2115 2120 2125
 Ser Ile Thr Val Ser Val Leu His Gly Thr His Ser Gly Pro Ser Tyr
 2130 2135 2140
 Thr Pro Val Pro Gly Ser Thr Arg Pro Ile Arg Ile Glu Pro Ser Ser
 2145 2150 2155 2160
 Ser His Val Ala Glu Gly Gln Thr Leu Asp Leu Asn Cys Val Val Pro
 2165 2170 2175
 Gly Gln Ala His Ala Gln Val Thr Trp His Lys Arg Gly Gly Ser Leu
 2180 2185 2190
 Pro Ala Arg His Gln Thr His Gly Ser Leu Leu Arg Leu His Gln Val
 2195 2200 2205
 Thr Pro Ala Asp Ser Gly Glu Tyr Val Cys His Val Val Gly Thr Ser
 2210 2215 2220
 Gly Pro Leu Glu Ala Ser Val Leu Val Thr Ile Glu Ala Ser Val Ile

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His Val Ala Glu Gly Glu Thr Leu Asp Leu Asn Cys Val Val Pro Gly
 2740 2745 2750
 Gln Ala His Ala Gln Val Thr Trp His Lys Arg Gly Gly Ser Leu Pro
 2755 2760 2765
 Ser His His Gln Thr Arg Gly Ser Arg Leu Arg Leu His His Val Ser
 2770 2775 2780
 Pro Ala Asp Ser Gly Glu Tyr Val Cys Arg Val Met Gly Ser Ser Gly
 2785 2790 2795 2800
 Pro Leu Glu Ala Ser Val Leu Val Thr Ile Glu Ala Ser Gly Ser Ser
 2805 2810 2815
 Ala Val His Val Pro Ala Pro Gly Gly Ala Pro Pro Ile Arg Ile Glu
 2820 2825 2830
 Pro Ser Ser Ser Arg Val Ala Glu Gly Gln Thr Leu Asp Leu Lys Cys
 2835 2840 2845
 Val Val Pro Gly Gln Ala His Ala Gln Val Thr Trp His Lys Arg Gly
 2850 2855 2860
 Gly Asn Leu Pro Ala Arg His Gln Val His Gly Pro Leu Leu Arg Leu
 2865 2870 2875 2880
 Asn Gln Val Ser Pro Ala Asp Ser Gly Glu Tyr Ser Cys Gln Val Thr
 2885 2890 2895
 Gly Ser Ser Gly Thr Leu Glu Ala Ser Val Leu Val Thr Ile Glu Pro
 2900 2905 2910
 Ser Ser Pro Gly Pro Ile Pro Ala Pro Gly Leu Ala Gln Pro Ile Tyr
 2915 2920 2925
 Ile Glu Ala Ser Ser Ser His Val Thr Glu Gly Gln Thr Leu Asp Leu
 2930 2935 2940
 Asn Cys Val Val Pro Gly Gln Ala His Ala Gln Val Thr Trp Tyr Lys
 2945 2950 2955 2960
 Arg Gly Gly Ser Leu Pro Ala Arg His Gln Thr His Gly Ser Gln Leu
 2965 2970 2975
 Arg Leu His Leu Val Ser Pro Ala Asp Ser Gly Glu Tyr Val Cys Arg
 2980 2985 2990
 Ala Ala Ser Gly Pro Gly Pro Glu Gln Glu Ala Ser Phe Thr Val Thr
 2995 3000 3005
 Val Pro Pro Ser Glu Gly Ser Ser Tyr Arg Leu Arg Ser Pro Val Ile
 3010 3015 3020
 Ser Ile Asp Pro Pro Ser Ser Thr Val Gln Gln Gly Gln Asp Ala Ser
 3025 3030 3035 3040
 Phe Lys Cys Leu Ile His Asp Gly Ala Ala Pro Ile Ser Leu Glu Trp
 3045 3050 3055
 Lys Thr Arg Asn Gln Glu Leu Glu Asp Asn Val His Ile Ser Pro Asn
 3060 3065 3070
 Gly Ser Ile Thr Ile Val Gly Thr Arg Pro Ser Asn His Gly Thr
 3075 3080 3085
 Tyr Arg Cys Val Ala Ser Asn Ala Tyr Gly Val Ala Gln Ser Val Val
 3090 3095 3100
 Asn Leu Ser Val His Gly Pro Pro Thr Val Ser Val Leu Pro Glu Gly
 3105 3110 3115 3120
 Pro Val Trp Val Lys Val Gly Lys Ala Val Thr Leu Glu Cys Val Ser
 3125 3130 3135
 Ala Gly Glu Pro Arg Ser Ser Ala Arg Trp Thr Arg Ile Ser Ser Thr
 3140 3145 3150
 Pro Ala Lys Leu Glu Gln Arg Thr Tyr Gly Leu Met Asp Ser His Ala
 3155 3160 3165
 Val Leu Gln Ile Ser Ser Ala Lys Pro Ser Asp Ala Gly Thr Tyr Val
 3170 3175 3180
 Cys Leu Ala Gln Asn Ala Leu Gly Thr Ala Gln Lys Gln Val Glu Val
 3185 3190 3195 3200
 Ile Val Asp Thr Gly Ala Met Ala Pro Gly Ala Pro Gln Val Gln Ala
 3205 3210 3215
 Glu Glu Ala Glu Leu Thr Val Glu Ala Gly His Thr Ala Thr Leu Arg
 3220 3225 3230
 Cys Ser Ala Thr Gly Ser Pro Ala Pro Thr Ile His Trp Ser Lys Leu

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3235 3240 3245
 Arg Ser Pro Leu Pro Trp Gln His Arg Leu Glu Gly Asp Thr Leu Ile
 3250 3255 3260
 Ile Pro Arg Val Ala Gln Gln Asp Ser Gly Gln Tyr Ile Cys Asn Ala
 3265 3270 3275 3280
 Thr Ser Pro Ala Gly His Ala Glu Ala Thr Ile Ile Leu His Val Glu
 3285 3290 3295
 Ser Pro Pro Tyr Ala Thr Thr Val Pro Glu His Ala Ser Val Gln Ala
 3300 3305 3310
 Gly Glu Thr Val Gln Leu Gln Cys Leu Ala His Gly Thr Pro Pro Leu
 3315 3320 3325
 Thr Phe Gln Trp Ser Arg Val Gly Ser Ser Leu Pro Gly Arg Ala Thr
 3330 3335 3340
 Ala Arg Asn Glu Leu Leu His Phe Glu Arg Ala Pro Glu Asp Ser
 3345 3350 3355 3360
 Gly Arg Tyr Arg Cys Arg Val Thr Asn Lys Val Gly Ser Ala Glu Ala
 3365 3370 3375
 Phe Ala Gln Leu Leu Val Gln Gly Pro Pro Gly Ser Leu Pro Ala Thr
 3380 3385 3390
 Ser Ile Pro Ala Gly Ser Thr Pro Thr Val Gln Val Thr Pro Gln Leu
 3395 3400 3405
 Glu Thr Lys Ser Ile Gly Ala Ser Val Glu Phe His Cys Ala Val Pro
 3410 3415 3420
 Ser Asp Gln Gly Thr Gln Leu Arg Trp Phe Lys Glu Gly Gly Gln Leu
 3425 3430 3435 3440
 Pro Pro Gly His Ser Val Gln Asp Gly Val Leu Arg Ile Gln Asn Leu
 3445 3450 3455
 Asp Gln Ser Cys Gln Gly Thr Tyr Ile Cys Gln Ala His Gly Pro Trp
 3460 3465 3470
 Gly Lys Ala Gln Ala Ser Ala Gln Leu Val Ile Gln Ala Leu Pro Ser
 3475 3480 3485
 Val Leu Ile Asn Ile Arg Thr Ser Val Gln Thr Val Val Val Gly His
 3490 3495 3500
 Ala Val Glu Phe Glu Cys Leu Ala Leu Gly Asp Pro Lys Pro Gln Val
 3505 3510 3515 3520
 Thr Trp Ser Lys Val Gly Gly His Leu Arg Pro Gly Ile Val Gln Ser
 3525 3530 3535
 Gly Gly Val Val Arg Ile Ala His Val Glu Leu Ala Asp Ala Gly Gln
 3540 3545 3550
 Tyr Arg Cys Thr Ala Thr Asn Ala Ala Gly Thr Thr Gln Ser His Val
 3555 3560 3565
 Leu Leu Leu Val Gln Ala Leu Pro Gln Ile Ser Met Pro Gln Glu Val
 3570 3575 3580
 Arg Val Pro Ala Gly Ser Ala Ala Val Phe Pro Cys Ile Ala Ser Gly
 3585 3590 3595 3600
 Tyr Pro Thr Pro Asp Ile Ser Trp Ser Lys Leu Asp Gly Ser Leu Pro
 3605 3610 3615
 Pro Asp Ser Arg Leu Glu Asn Asn Met Leu Met Leu Pro Ser Val Arg
 3620 3625 3630
 Pro Gln Asp Ala Gly Thr Tyr Val Cys Thr Ala Thr Asn Arg Gln Gly
 3635 3640 3645
 Lys Val Lys Ala Phe Ala His Leu Gln Val Pro Glu Arg Val Val Pro
 3650 3655 3660
 Tyr Phe Thr Gln Thr Pro Tyr Ser Phe Leu Pro Leu Pro Thr Ile Lys
 3665 3670 3675 3680
 Asp Ala Tyr Arg Lys Phe Glu Ile Lys Ile Thr Phe Arg Pro Asp Ser
 3685 3690 3695
 Ala Asp Gly Met Leu Leu Tyr Asn Gly Gln Lys Arg Val Pro Gly Ser
 3700 3705 3710
 Pro Thr Asn Leu Ala Asn Arg Gln Pro Asp Phe Ile Ser Phe Gly Leu
 3715 3720 3725
 Val Gly Gly Arg Pro Glu Phe Arg Phe Asp Ala Gly Ser Gly Met Ala
 3730 3735 3740

Thr Ile Arg His Pro Thr Pro Leu Ala Leu Gly His Phe His Thr Val
 3745 3750 3755 3760
 Thr Leu Leu Arg Ser Leu Thr Gln Gly Ser Leu Ile Val Gly Asp Leu
 3765 3770 3775
 Ala Pro Val Asn Gly Thr Ser Gln Gly Lys Phe Gln Gly Leu Asp Leu
 3780 3785 3790
 Asn Glu Glu Leu Tyr Leu Gly Gly Tyr Pro Asp Tyr Gly Ala Ile Pro
 3795 3800 3805
 Lys Ala Gly Leu Ser Ser Gly Phe Ile Gly Cys Val Arg Glu Leu Arg
 3810 3815 3820
 Ile Gln Gly Glu Glu Ile Val Phe His Asp Leu Asn Leu Thr Ala His
 3825 3830 3835 3840
 Gly Ile Ser His Cys Pro Thr Cys Arg Asp Arg Pro Cys Gln Asn Gly
 3845 3850 3855
 Gly Gln Cys His Asp Ser Glu Ser Ser Tyr Val Cys Val Cys Pro
 3860 3865 3870
 Ala Gly Phe Thr Gly Ser Arg Cys Glu His Ser Gln Ala Leu His Cys
 3875 3880 3885
 His Pro Glu Ala Cys Gly Pro Asp Ala Thr Cys Val Asn Arg Pro Asp
 3890 3895 3900
 Gly Arg Gly Tyr Thr Cys Arg Cys His Leu Gly Arg Ser Gly Leu Arg
 3905 3910 3915 3920
 Cys Glu Glu Gly Val Thr Val Thr Thr Pro Ser Leu Ser Gly Ala Gly
 3925 3930 3935
 Ser Tyr Leu Ala Leu Pro Ala Leu Thr Asn Thr His His Glu Leu Arg
 3940 3945 3950
 Leu Asp Val Glu Phe Lys Pro Leu Ala Pro Asp Gly Val Leu Leu Phe
 3955 3960 3965
 Ser Gly Gly Lys Ser Gly Pro Val Glu Asp Phe Val Ser Leu Ala Met
 3970 3975 3980
 Val Gly Gly His Leu Glu Phe Arg Tyr Glu Leu Gly Ser Gly Leu Ala
 3985 3990 3995 4000
 Val Leu Arg Ser Ala Glu Pro Leu Ala Leu Gly Arg Trp His Arg Val
 4005 4010 4015
 Ser Ala Glu Arg Leu Asn Lys Asp Gly Ser Leu Arg Val Asn Gly Gly
 4020 4025 4030
 Arg Pro Val Leu Arg Ser Ser Pro Gly Lys Ser Gln Gly Leu Asn Leu
 4035 4040 4045
 His Thr Leu Leu Tyr Leu Gly Gly Val Glu Pro Ser Val Pro Leu Ser
 4050 4055 4060
 Pro Ala Thr Asn Met Ser Ala His Phe Arg Gly Cys Val Gly Glu Val
 4065 4070 4075 4080
 Ser Val Asn Gly Lys Arg Leu Asp Leu Thr Tyr Ser Phe Leu Gly Ser
 4085 4090 4095
 Gln Gly Ile Gly Gln Cys Tyr Asp Ser Ser Pro Cys Glu Arg Gln Pro
 4100 4105 4110
 Cys Gln His Gly Ala Thr Cys Met Pro Ala Gly Glu Tyr Glu Phe Gln
 4115 4120 4125
 Cys Leu Cys Arg Asp Gly Phe Lys Gly Asp Leu Cys Glu His Glu Glu
 4130 4135 4140
 Asn Pro Cys Gln Leu Arg Glu Pro Cys Leu His Gly Gly Thr Cys Gln
 4145 4150 4155 4160
 Gly Thr Arg Cys Leu Cys Leu Pro Gly Phe Ser Gly Pro Arg Cys Gln
 4165 4170 4175
 Gln Gly Ser Gly His Gly Ile Ala Glu Ser Asp Trp His Leu Glu Gly
 4180 4185 4190
 Ser Gly Gly Asn Asp Ala Pro Gly Gln Tyr Gly Ala Tyr Phe His Asp
 4195 4200 4205
 Asp Gly Phe Leu Ala Phe Pro Gly His Val Phe Ser Arg Ser Leu Pro
 4210 4215 4220
 Glu Val Pro Glu Thr Ile Glu Leu Glu Val Arg Thr Ser Thr Ala Ser
 4225 4230 4235 4240
 Gly Leu Leu Leu Trp Gln Gly Val Glu Val Gly Glu Ala Gly Gln Gly

4245
 Lys Asp Phe Ile Ser Leu Gly Leu Gln Asp Gly His Leu Val Phe Arg 4255
 Tyr Gln Leu Gly Ser Gly Glu Ala Arg Leu Val Ser Glu Asp Pro Ile 4270
 Asn Asp Gly Glu Trp His Arg Val Thr Ala Leu Arg Glu Gly Arg Arg 4285
 Gly Ser Ile Gln Val Asp Gly Glu Glu Leu Val Ser Gly Arg Ser Pro 4300
 Gly Pro Asn Val Ala Val Asn Ala Lys Gly Ser Val Tyr Ile Gly Gly 4315
 Ala Pro Asp Val Ala Thr Leu Thr Gly Gly Arg Phe Ser Ser Gly Ile 4330
 Thr Gly Cys Val Lys Asn Leu Val Leu His Ser Ala Arg Pro Gly Ala 4335
 Pro Pro Pro Gln Pro Leu Asp Leu Gln His Arg Ala Gln Ala Gly Ala 4345
 Asn Thr Arg Pro Cys Pro Ser 4360
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 <212> PRT
 <213> human

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 Tyr Asn Gly Gln Lys Arg Val Pro Gly Ser Pro Thr Asn Leu Ala Asn
 20 25 30
 Arg Gln Pro Asp Phe Ile Ser Phe Gly Leu Val Gly Gly Arg Pro Glu
 35 40 45
 Phe Arg Phe Asp Ala Gly Ser Gly Met Ala Thr Ile Arg His Pro Thr
 50 55 60
 Pro Leu Ala Leu Gly His Phe His Thr Val Thr Leu Leu Arg Ser Leu
 65 70 75 80
 Thr Gln Gly Ser Leu Ile Val Gly Asp Leu Ala Pro Val Asn Gly Thr
 85 90 95
 Ser Gln Gly Lys Phe Gln Gly Leu Asp Leu Asn Glu Glu Leu Tyr Leu
 100 105 110
 Gly Gly Tyr Pro Asp Tyr Gly Ala Ile Pro Lys Ala Gly Leu Ser Ser
 115 120 125
 Gly Phe Ile Gly Cys Val Arg Glu Leu Arg Ile Gln Gly Glu Glu Ile
 130 135 140
 Val Phe His Asp Leu Asn Leu Thr Ala His Gly Ile Ser His Cys Pro
 145 150 155 160
 Thr Cys Arg Asp Arg Pro Cys Gln Asn Gly Gly Gln Cys His Asp Ser
 165 170 175
 Glu Ser Ser Ser Tyr Val Cys Val Cys Pro Ala Gly Phe Thr Gly Ser
 180 185 190
 Arg Cys Glu His Ser Gln Ala Leu His Cys His Pro Glu Ala Cys Gly
 195 200 205
 Pro Asp Ala Thr Cys Val Asn Arg Pro Asp Gly Arg Gly Tyr Thr Cys
 210 215 220
 Arg Cys His Leu Gly Arg Ser Gly Leu Arg Cys Glu Glu Gly Val Thr
 225 230 235 240
 Val Thr Thr Pro Ser Leu Ser Gly Ala Gly Ser Tyr Leu Ala Leu Pro
 245 250 255
 Ala Leu Thr Asn Thr His His Glu Leu Arg Leu Asp Val Glu Phe Lys
 260 265 270
 Pro Leu Ala Pro Asp Gly Val Leu Leu Phe Ser Gly Gly Lys Ser Gly
 275 280 285
 Pro Val Glu Asp Phe Val Ser Leu Ala Met Val Gly Gly His Leu Glu

templst.txt

290 295 300
 Phe Arg Tyr Glu Leu Gly Ser Gly Leu Ala Val Leu Arg Ser Ala Glu
 305 310 315 320
 Pro Leu Ala Leu Gly Arg Trp His Arg Val Ser Ala Glu Arg Leu Asn
 325 330 335
 Lys Asp Gly Ser Leu Arg Val Asn Gly Gly Arg Pro Val Leu Arg Ser
 340 345 350
 Ser Pro Gly Lys Ser Gln Gly Leu Asn Leu His Thr Leu Tyr Leu
 355 360 365
 Gly Gly Val Glu Pro Ser Val Pro Leu Ser Pro Ala Thr Asn Met Ser
 370 375 380
 Ala His Phe Arg Gly Cys Val Gly Glu Val Ser Val Asn Gly Lys Arg
 385 390 395 400
 Leu Asp Leu Thr Tyr Ser Phe Leu Gly Ser Gln Gly Ile Gly Gln Cys
 405 410 415
 Tyr Asp Ser Ser Pro Cys Glu Arg Gln Pro Cys Gln His Gly Ala Thr
 420 425 430
 Cys Met Pro Ala Gly Glu Tyr Glu Phe Gln Cys Leu Cys Arg Asp Gly
 435 440 445
 Phe Lys Gly Asp Leu Cys Glu His Glu Glu Asn Pro Cys Gln Leu Arg
 450 455 460
 Glu Pro Cys Leu His Gly Gly Thr Cys Gln Gly Thr Arg Cys Leu Cys
 465 470 475 480
 Leu Pro Gly Phe Ser Gly Pro Arg Cys Gln Gln Gly Ser Gly His Gly
 485 490 495
 Ile Ala Glu Ser Asp Trp His Leu Glu Gly Ser Gly Gly Asn Asp Ala
 500 505 510
 Pro Gly Gln Tyr Gly Ala Tyr Phe His Asp Asp Gly Phe Leu Ala Phe
 515 520 525
 Pro Gly His Val Phe Ser Arg Ser Leu Pro Glu Val Pro Glu Thr Ile
 530 535 540
 Glu Leu Glu Val Arg Thr Ser Thr Ala Ser Gly Leu Leu Leu Trp Gln
 545 550 555 560
 Gly Val Glu Val Gly Glu Ala Gly Gln Gly Lys Asp Phe Ile Ser Leu
 565 570 575
 Gly Leu Gln Asp Gly His Leu Val Phe Arg Tyr Gln Leu Gly Ser Gly
 580 585 590
 Glu Ala Arg Leu Val Ser Glu Asp Pro Ile Asn Asp Gly Glu Trp His
 595 600 605
 Arg Val Thr Ala Leu Arg Glu Gly Arg Arg Gly Ser Ile Gln Val Asp
 610 615 620
 Gly Glu Glu Leu Val Ser Gly Arg Ser Pro Gly Pro Asn Val Ala Val
 625 630 635 640
 Asn Ala Lys Gly Ser Val Tyr Ile Gly Gly Ala Pro Asp Val Ala Thr
 645 650 655
 Leu Thr Gly Gly Arg Phe Ser Ser Gly Ile Thr Gly Cys Val Lys Asn
 660 665 670
 Leu Val Leu His Ser Ala Arg Pro Gly Ala Pro Pro Gln Pro Leu
 675 680 685
 Asp Leu Gln His Arg Ala Gln Ala Gly Ala Asn Thr Arg Pro Cys Pro
 690 695 700
 Ser
 705

<210> 4
 <211> 495
 <212> PRT
 <213> human

<400> 4
 Glu Ile Lys Ile Thr Phe Arg Pro Asp Ser Ala Asp Gly Met Leu Leu
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 Tyr Asn Gly Gln Lys Arg Val Pro Gly Ser Pro Thr Asn Leu Ala Asn

templst.txt

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Arg	Gln	Pro	Asp	Phe	Ile	Ser	Phe	Gly	Leu	Val	Gly	Gly	Arg	Pro	Glu
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Phe	Arg	Phe	Asp	Ala	Gly	Ser	Gly	Met	Ala	Thr	Ile	Arg	His	Pro	Thr
	50					55					60				
Pro	Leu	Ala	Leu	Gly	His	Phe	His	Thr	Val	Thr	Leu	Leu	Arg	Ser	Leu
65				70					75					80	
Thr	Gln	Gly	Ser	Leu	Ile	Val	Gly	Asp	Leu	Ala	Pro	Val	Asn	Gly	Thr
				85					90					95	
Ser	Gln	Gly	Lys	Phe	Gln	Gly	Leu	Asp	Leu	Asn	Glu	Glu	Leu	Tyr	Leu
			100					105					110		
Gly	Gly	Tyr	Pro	Asp	Tyr	Gly	Ala	Ile	Pro	Lys	Ala	Gly	Leu	Ser	Ser
		115				120						125			
Gly	Phe	Ile	Gly	Cys	Val	Arg	Glu	Leu	Arg	Ile	Gln	Gly	Glu	Glu	Ile
	130					135					140				
Val	Phe	His	Asp	Leu	Asn	Leu	Thr	Ala	His	Gly	Ile	Ser	His	Cys	Pro
145				150						155					160
Thr	Cys	Arg	Asp	Arg	Pro	Cys	Gln	Asn	Gly	Gly	Gln	Cys	His	Asp	Ser
			165						170					175	
Glu	Ser	Ser	Ser	Tyr	Val	Cys	Val	Cys	Pro	Ala	Gly	Phe	Thr	Gly	Ser
			180					185					190		
Arg	Cys	Glu	His	Ser	Gln	Ala	Leu	His	Cys	His	Pro	Glu	Ala	Cys	Gly
	195					200						205			
Pro	Asp	Ala	Thr	Cys	Val	Asn	Arg	Pro	Asp	Gly	Arg	Gly	Tyr	Thr	Cys
	210					215					220				
Arg	Cys	His	Leu	Gly	Arg	Ser	Gly	Leu	Arg	Cys	Glu	Glu	Gly	Val	Thr
225				230						235					240
Val	Thr	Thr	Pro	Ser	Leu	Ser	Gly	Ala	Gly	Ser	Tyr	Leu	Ala	Leu	Pro
			245						250					255	
Ala	Leu	Thr	Asn	Thr	His	His	Glu	Leu	Arg	Leu	Asp	Val	Glu	Phe	Lys
			260					265					270		
Pro	Leu	Ala	Pro	Asp	Gly	Val	Leu	Leu	Phe	Ser	Gly	Gly	Lys	Ser	Gly
		275					280					285			
Pro	Val	Glu	Asp	Phe	Val	Ser	Leu	Ala	Met	Val	Gly	Gly	His	Leu	Glu
	290					295					300				
Phe	Arg	Tyr	Glu	Leu	Gly	Ser	Gly	Leu	Ala	Val	Leu	Arg	Ser	Ala	Glu
305				310						315					320
Pro	Leu	Ala	Leu	Gly	Arg	Trp	His	Arg	Val	Ser	Ala	Glu	Arg	Leu	Asn
			325						330					335	
Lys	Asp	Gly	Ser	Leu	Arg	Val	Asn	Gly	Gly	Arg	Pro	Val	Leu	Arg	Ser
			340					345					350		
Ser	Pro	Gly	Lys	Ser	Gln	Gly	Leu	Asn	Leu	His	Thr	Leu	Leu	Tyr	Leu
		355					360					365			
Gly	Gly	Val	Glu	Pro	Ser	Val	Pro	Leu	Ser	Pro	Ala	Thr	Asn	Met	Ser
	370					375					380				
Ala	His	Phe	Arg	Gly	Cys	Val	Gly	Glu	Val	Ser	Val	Asn	Gly	Lys	Arg
385				390						395					400
Leu	Asp	Leu	Thr	Tyr	Ser	Phe	Leu	Gly	Ser	Gln	Gly	Ile	Gly	Gln	Cys
			405						410					415	
Tyr	Asp	Ser	Ser	Pro	Cys	Glu	Arg	Gln	Pro	Cys	Gln	His	Gly	Ala	Thr
			420					425					430		
Cys	Met	Pro	Ala	Gly	Glu	Tyr	Glu	Phe	Gln	Cys	Leu	Cys	Arg	Asp	Gly
		435					440					445			
Phe	Lys	Gly	Asp	Leu	Cys	Glu	His	Glu	Glu	Asn	Pro	Cys	Gln	Leu	Arg
	450					455					460				
Glu	Pro	Cys	Leu	His	Gly	Gly	Thr	Cys	Gln	Gly	Thr	Arg	Cys	Leu	Cys
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Leu	Pro	Gly	Phe	Ser	Gly	Pro	Arg	Cys	Gln	Gln	Gly	Ser	Gly	His	
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 <211> 240
 <212> PRT

templst.txt

<213> human

<400> 5

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 Tyr Asn Gly Gln Lys Arg Val Pro Gly Ser Pro Thr Asn Leu Ala Asn
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 Arg Gln Pro Asp Phe Ile Ser Phe Gly Leu Val Gly Gly Arg Pro Glu
 35 40 45
 Phe Arg Phe Asp Ala Gly Ser Gly Met Ala Thr Ile Arg His Pro Thr
 50 55 60
 Pro Leu Ala Leu Gly His Phe His Thr Val Thr Leu Leu Arg Ser Leu
 65 70 75 80
 Thr Gln Gly Ser Leu Ile Val Gly Asp Leu Ala Pro Val Asn Gly Thr
 85 90 95
 Ser Gln Gly Lys Phe Gln Gly Leu Asp Leu Asn Glu Glu Leu Tyr Leu
 100 105 110
 Gly Gly Tyr Pro Asp Tyr Gly Ala Ile Pro Lys Ala Gly Leu Ser Ser
 115 120 125
 Gly Phe Ile Gly Cys Val Arg Glu Leu Arg Ile Gln Gly Glu Glu Ile
 130 135 140
 Val Phe His Asp Leu Asn Leu Thr Ala His Gly Ile Ser His Cys Pro
 145 150 155 160
 Thr Cys Arg Asp Arg Pro Cys Gln Asn Gly Gly Gln Cys His Asp Ser
 165 170 175
 Glu Ser Ser Ser Tyr Val Cys Val Cys Pro Ala Gly Phe Thr Gly Ser
 180 185 190
 Arg Cys Glu His Ser Gln Ala Leu His Cys His Pro Glu Ala Cys Gly
 195 200 205
 Pro Asp Ala Thr Cys Val Asn Arg Pro Asp Gly Arg Gly Tyr Thr Cys
 210 215 220
 Arg Cys His Leu Gly Arg Ser Gly Leu Arg Cys Glu Glu Gly Val Thr
 225 230 235 240

<210> 6

<211> 161

<212> PRT

<213> human

<400> 6

Glu Ile Lys Ile Thr Phe Arg Pro Asp Ser Ala Asp Gly Met Leu Leu
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 Tyr Asn Gly Gln Lys Arg Val Pro Gly Ser Pro Thr Asn Leu Ala Asn
 20 25 30
 Arg Gln Pro Asp Phe Ile Ser Phe Gly Leu Val Gly Gly Arg Pro Glu
 35 40 45
 Phe Arg Phe Asp Ala Gly Ser Gly Met Ala Thr Ile Arg His Pro Thr
 50 55 60
 Pro Leu Ala Leu Gly His Phe His Thr Val Thr Leu Leu Arg Ser Leu
 65 70 75 80
 Thr Gln Gly Ser Leu Ile Val Gly Asp Leu Ala Pro Val Asn Gly Thr
 85 90 95
 Ser Gln Gly Lys Phe Gln Gly Leu Asp Leu Asn Glu Glu Leu Tyr Leu
 100 105 110
 Gly Gly Tyr Pro Asp Tyr Gly Ala Ile Pro Lys Ala Gly Leu Ser Ser
 115 120 125
 Gly Phe Ile Gly Cys Val Arg Glu Leu Arg Ile Gln Gly Glu Glu Ile
 130 135 140
 Val Phe His Asp Leu Asn Leu Thr Ala His Gly Ile Ser His Cys Pro
 145 150 155 160
 Thr

templst.txt

<210> 7
 <211> 79
 <212> PRT
 <213> human

<400> 7
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 20 25 30
 Cys Glu His Ser Gln Ala Leu His Cys His Pro Glu Ala Cys Gly Pro
 35 40 45
 Asp Ala Thr Cys Val Asn Arg Pro Asp Gly Arg Gly Tyr Thr Cys Arg
 50 55 60
 Cys His Leu Gly Arg Ser Gly Leu Arg Cys Glu Gly Val Thr
 65 70 75

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 <212> PRT
 <213> human

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 20 25 30
 Pro Leu Ala Pro Asp Gly Val Leu Leu Phe Ser Gly Gly Lys Ser Gly
 35 40 45
 Pro Val Glu Asp Phe Val Ser Leu Ala Met Val Gly Gly His Leu Glu
 50 55 60
 Phe Arg Tyr Glu Leu Gly Ser Gly Leu Ala Val Leu Arg Ser Ala Glu
 65 70 75 80
 Pro Leu Ala Leu Gly Arg Trp His Arg Val Ser Ala Glu Arg Leu Asn
 85 90 95
 Lys Asp Gly Ser Leu Arg Val Asn Gly Gly Arg Pro Val Leu Arg Ser
 100 105 110
 Ser Pro Gly Lys Ser Gln Gly Leu Asn Leu His Thr Leu Leu Tyr Leu
 115 120 125
 Gly Gly Val Glu Pro Ser Val Pro Leu Ser Pro Ala Thr Asn Met Ser
 130 135 140
 Ala His Phe Arg Gly Cys Val Gly Glu Val Ser Val Asn Gly Lys Arg
 145 150 155 160
 Leu Asp Leu Thr Tyr Ser Phe Leu Gly Ser Gln Gly Ile Gly Gln Cys
 165 170 175
 Tyr Asp Ser Ser Pro Cys Glu Arg Gln Pro Cys Gln His Gly Ala Thr
 180 185 190
 Cys Met Pro Ala Gly Glu Tyr Glu Phe Gln Cys Leu Cys Arg Asp Gly
 195 200 205
 Phe Lys Gly Asp Leu Cys Glu His Glu Glu Asn Pro Cys Gln Leu Arg
 210 215 220
 Glu Pro Cys Leu His Gly Gly Thr Cys Gln Gly Thr Arg Cys Leu Cys
 225 230 235 240
 Leu Pro Gly Phe Ser Gly Pro Arg Cys Gln Gln Gly Ser Gly His
 245 250 255

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 <212> PRT
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templst.txt

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Cys	Glu	His	Glu	Glu	Asn	Pro	Cys	Gln	Leu	Arg	Glu	Pro	Cys	Leu	His
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Gly	Gly	Thr	Cys	Gln	Gly	Thr	Arg	Cys	Leu	Cys	Leu	Pro	Gly	Phe	Ser
	50					55					60				
Gly	Pro	Arg	Cys	Gln	Gln	Gly	Ser	Gly	His	Gly	Ile	Ala	Glu	Ser	Asp
65				70					75						80
Trp	His	Leu	Glu	Gly	Ser	Gly	Gly	Asn	Asp	Ala	Pro	Gly	Gln	Tyr	Gly
				85				90						95	
Ala	Tyr	Phe	His	Asp	Asp	Gly	Phe	Leu	Ala	Phe	Pro	Gly	His	Val	Phe
			100				105						110		
Ser	Arg	Ser	Leu	Pro	Glu	Val	Pro	Glu	Thr	Ile	Glu	Leu	Glu	Val	Arg
		115					120					125			
Thr	Ser	Thr	Ala	Ser	Gly	Leu	Leu	Leu	Trp	Gln	Gly	Val	Glu	Val	Gly
	130					135					140				
Glu	Ala	Gly	Gln	Gly	Lys	Asp	Phe	Ile	Ser	Leu	Gly	Leu	Gln	Asp	Gly
145					150					155					160
His	Leu	Val	Phe	Arg	Tyr	Gln	Leu	Gly	Ser	Gly	Glu	Ala	Arg	Leu	Val
				165					170					175	
Ser	Glu	Asp	Pro	Ile	Asn	Asp	Gly	Glu	Trp	His	Arg	Val	Thr	Ala	Leu
			180					185					190		
Arg	Glu	Gly	Arg	Arg	Gly	Ser	Ile	Gln	Val	Asp	Gly	Glu	Glu	Leu	Val
		195					200					205			
Ser	Gly	Arg	Ser	Pro	Gly	Pro	Asn	Val	Ala	Val	Asn	Ala	Lys	Gly	Ser
	210					215					220				
Val	Tyr	Ile	Gly	Gly	Ala	Pro	Asp	Val	Ala	Thr	Leu	Thr	Gly	Gly	Arg
225					230					235					240
Phe	Ser	Ser	Gly	Ile	Thr	Gly	Cys	Val	Lys	Asn	Leu	Val	Leu	His	Ser
				245					250					255	
Ala	Arg	Pro	Gly	Ala	Pro	Pro	Pro	Gln	Pro	Leu	Asp	Leu	Gln	His	Arg
			260					265					270		
Ala	Gln	Ala	Gly	Ala	Asn	Thr	Arg	Pro	Cys	Pro	Ser				
		275					280								

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 <211> 210
 <212> PRT
 <213> human

<400>	10														
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Ala	Pro	Gly	Gln	Tyr	Gly	Ala	Tyr	Phe	His	Asp	Asp	Gly	Phe	Leu	Ala
			20					25					30		
Phe	Pro	Gly	His	Val	Phe	Ser	Arg	Ser	Leu	Pro	Glu	Val	Pro	Glu	Thr
		35					40					45			
Ile	Glu	Leu	Glu	Val	Arg	Thr	Ser	Thr	Ala	Ser	Gly	Leu	Leu	Leu	Trp
	50					55					60				
Gln	Gly	Val	Glu	Val	Gly	Glu	Ala	Gly	Gln	Gly	Lys	Asp	Phe	Ile	Ser
65					70					75					80
Leu	Gly	Leu	Gln	Asp	Gly	His	Leu	Val	Phe	Arg	Tyr	Gln	Leu	Gly	Ser
				85					90					95	
Gly	Glu	Ala	Arg	Leu	Val	Ser	Glu	Asp	Pro	Ile	Asn	Asp	Gly	Glu	Trp
			100					105					110		
His	Arg	Val	Thr	Ala	Leu	Arg	Glu	Gly	Arg	Arg	Gly	Ser	Ile	Gln	Val
		115					120					125			
Asp	Gly	Glu	Glu	Leu	Val	Ser	Gly	Arg	Ser	Pro	Gly	Pro	Asn	Val	Ala
	130					135					140				
Val	Asn	Ala	Lys	Gly	Ser	Val	Tyr	Ile	Gly	Gly	Ala	Pro	Asp	Val	Ala
145					150					155					160
Thr	Leu	Thr	Gly	Gly	Arg	Phe	Ser	Ser	Gly	Ile	Thr	Gly	Cys	Val	Lys

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                                templst.txt
Asn Leu Val Leu His Ser Ala Arg Pro Gly Ala Pro Pro Pro Gln Pro
                                165
                                170
Leu Asp Leu Gln His Arg Ala Gln Ala Gly Ala Asn Thr Arg Pro Cys
                                180
                                185
                                190
Pro Ser
                                195
                                200
                                205
                                210

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